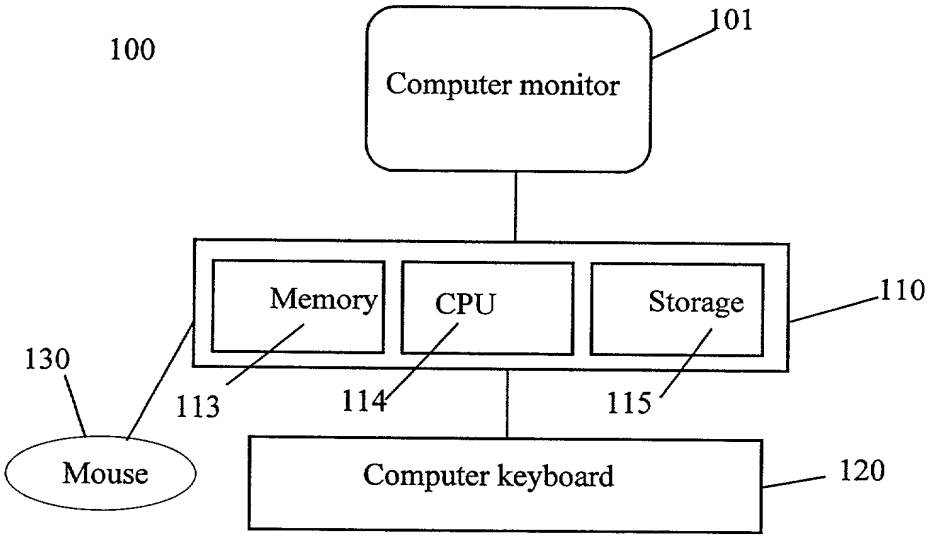

100
Computer monitor
101
Memory
CPU
Storage
110
130
113
114
115
Mouse
Computer keyboard
120

Fig 1

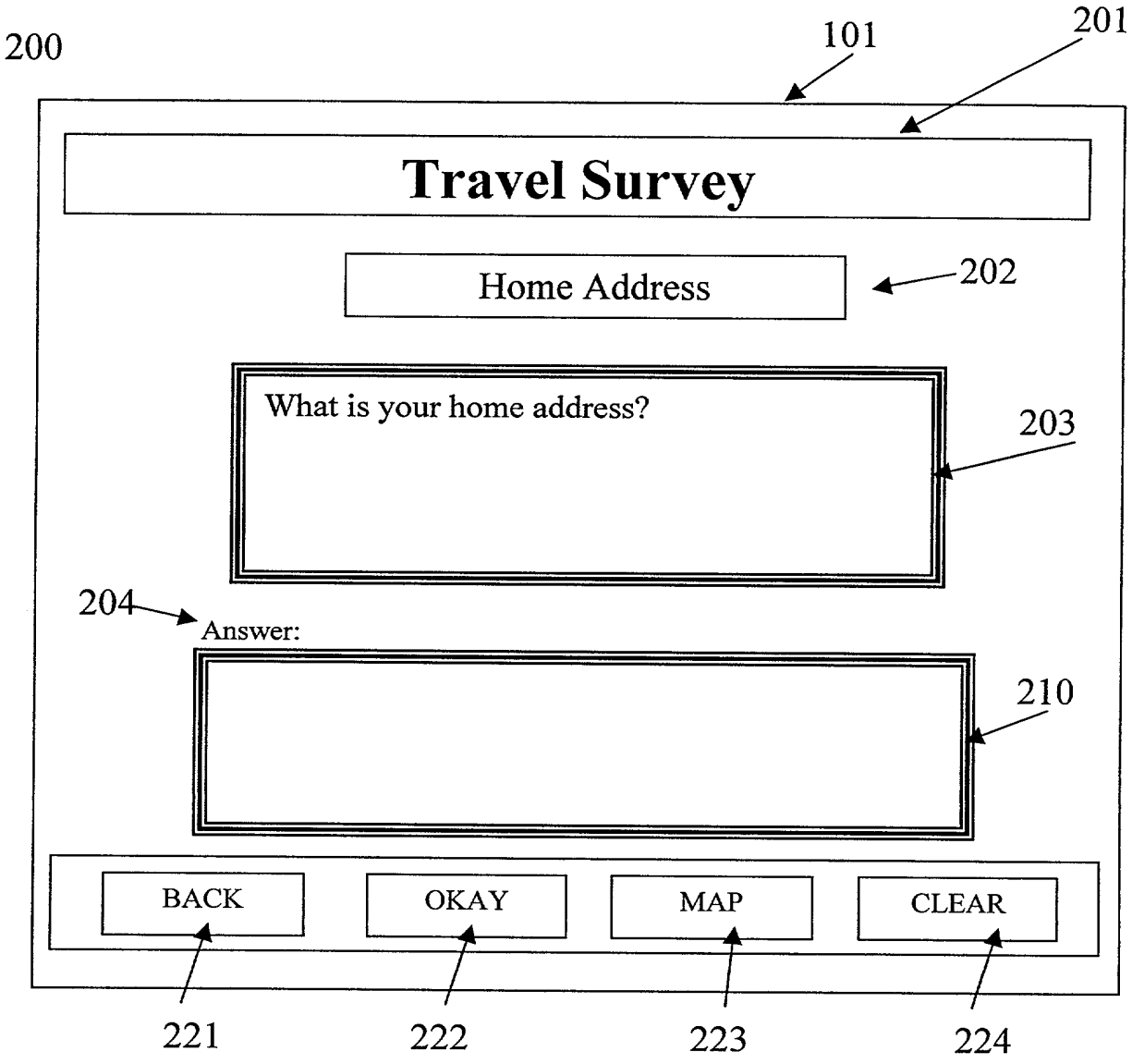
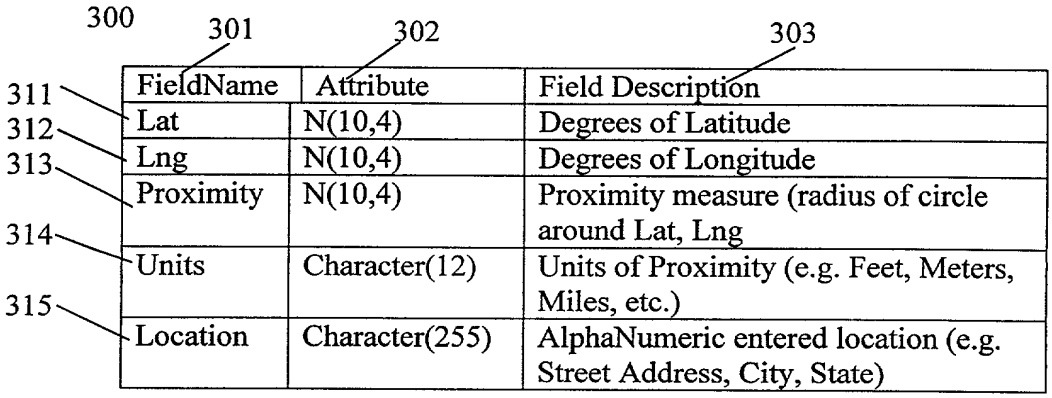

200
101
201
Travel Survey
Home Address
202
What is your home address?
203
204
Answer:
210
BACK
OKAY
MAP
CLEAR
221
222
223
224

Fig 2



FieldName	Attribute	Field Description
Lat	N(10,4)	Degrees of Latitude
Lng	N(10,4)	Degrees of Longitude
Proximity	N(10,4)	Proximity measure (radius of circle around Lat, Lng
Units	Character(12)	Units of Proximity (e.g. Feet, Meters, Miles, etc.)
Location	Character(255)	AlphaNumeric entered location (e.g. Street Address, City, State)

Fig 3

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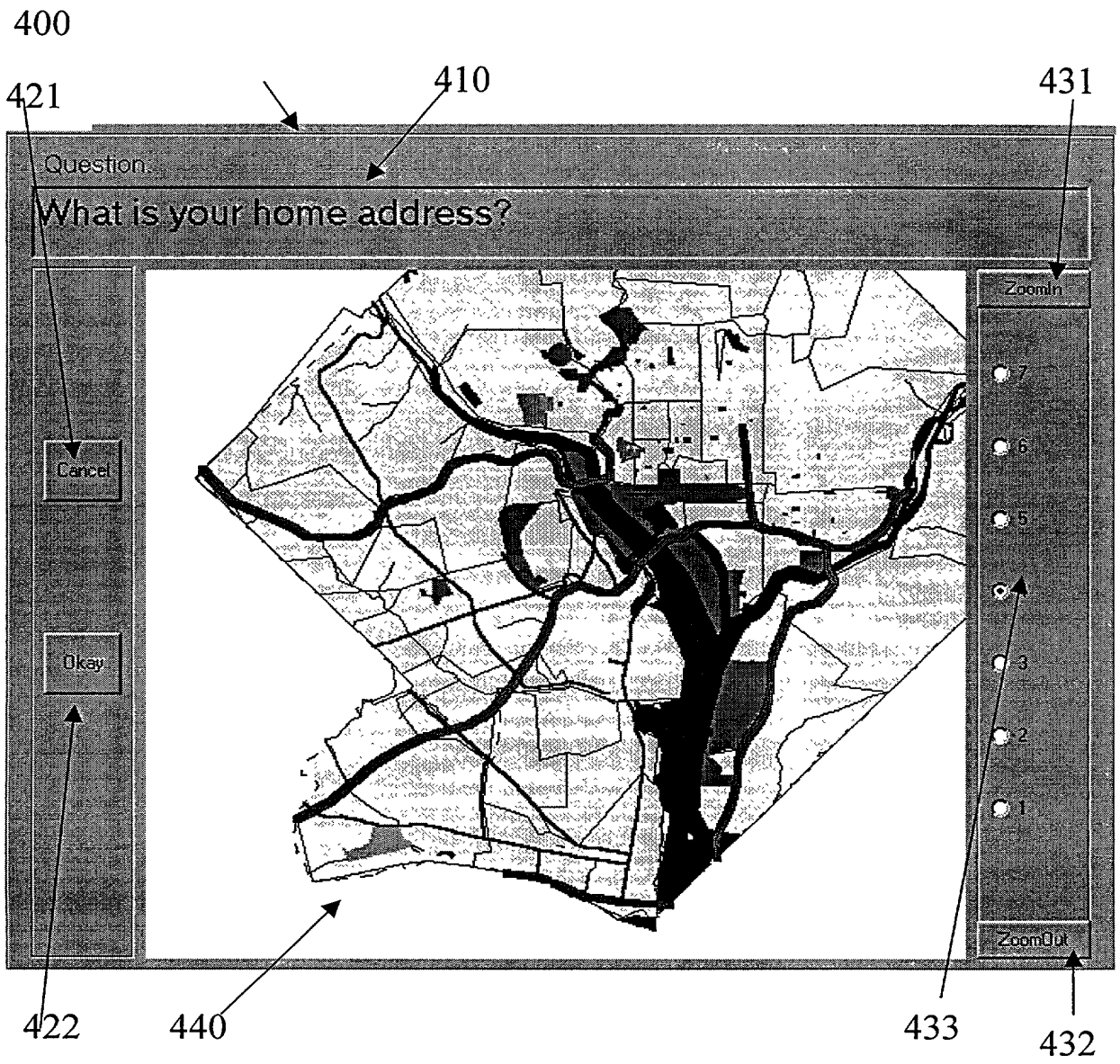
400
421
410
431
Question
What is your home address?
Cancel
Okay
ZoomIn
7
6
5
3
2
1
ZoomOut
422
440
433
432

Fig 4

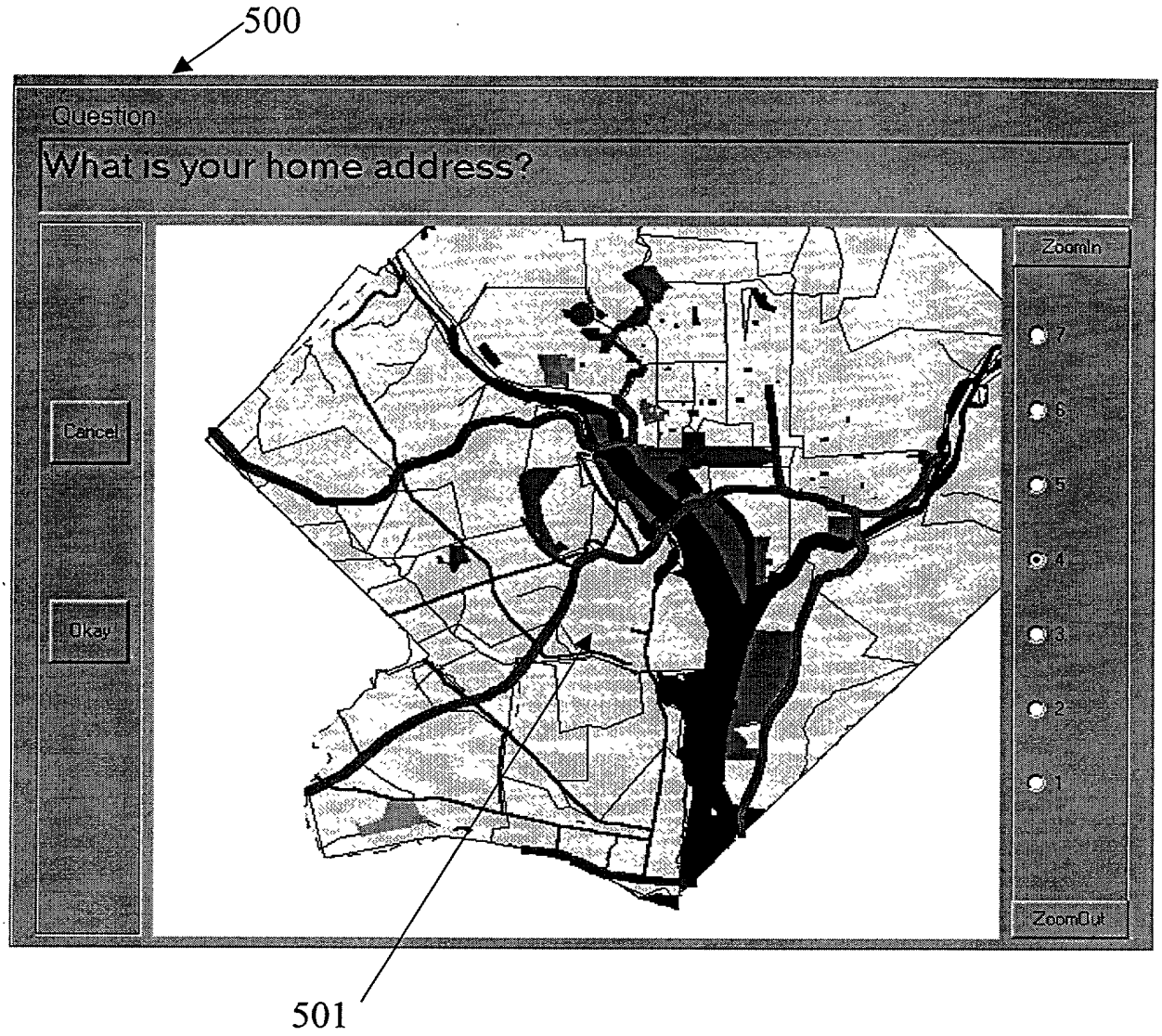
500
Question
What is your home address?
Cancel
Okay
ZoomIn
7
6
5
4
3
2
1
ZoomOut
501

Fig 5

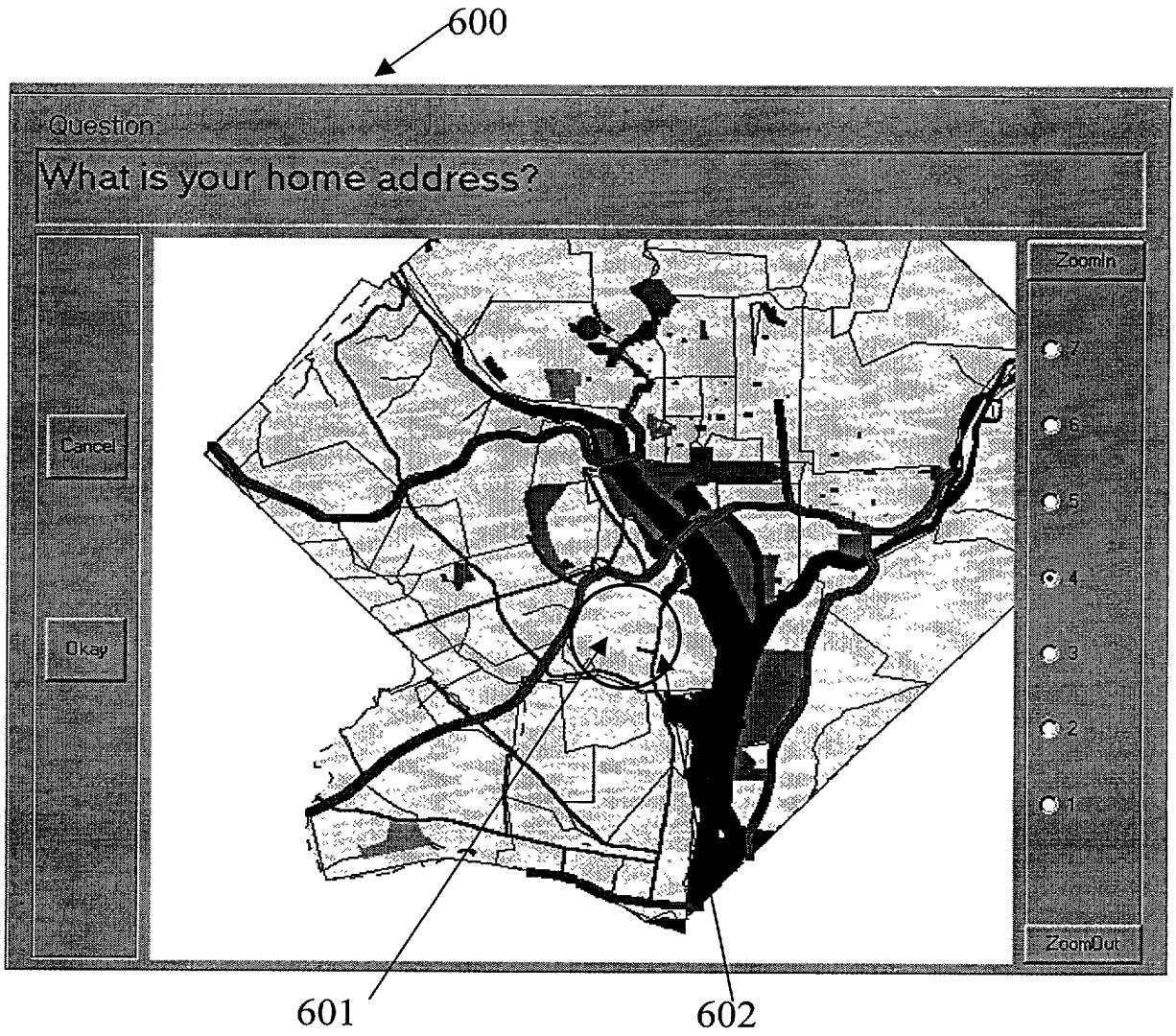
600
Question
What is your home address?
Cancel
Okay
ZoomIn
7
6
5
4
3
2
1
ZoomOut
601
602

Fig 6

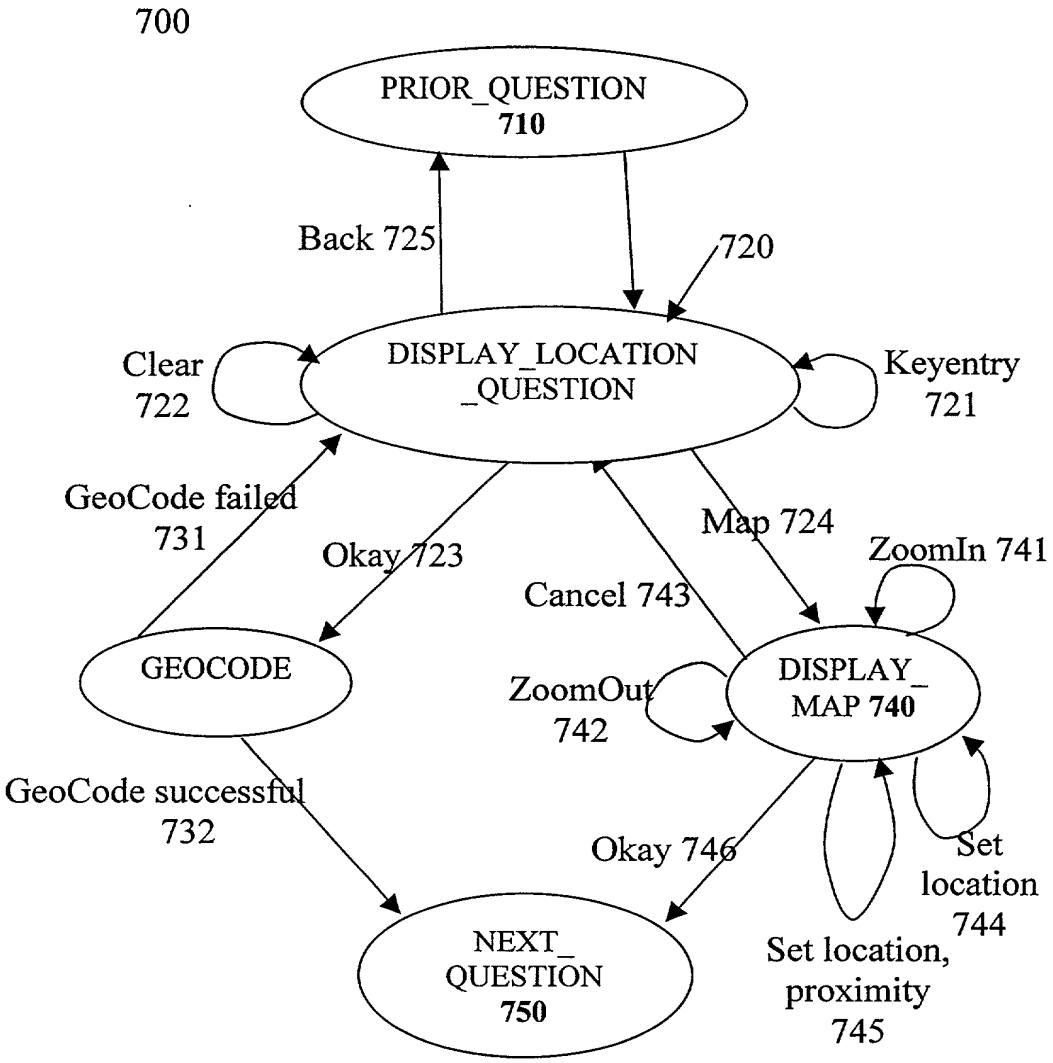
700
PRIOR_QUESTION
710
Back 725
720
Clear
722
DISPLAY_LOCATION
_QUESTION
Keyentry
721
GeoCode failed
731
Okay 723
Map 724
ZoomIn 741
Cancel 743
GEOCODE
ZoomOut
742
DISPLAY_
MAP 740
GeoCode successful
732
Okay 746
Set
location
744
NEXT_
QUESTION
750
Set location,
proximity
745

Fig 7

800

State	Event	Processing
PRIOR_QUESTION		State = DISPLAY_LOCATION_QUESTION: Event = Initialize
DISPLAY_LOCATION_QUESTION	Initialize	Set GeoCode=(null,null,null,null,null) Display location question Set Location = null State = DISPLAY_LOCATION_QUESTION: Event=Wait_on_user_action

	Wait_on_user_action	Refresh Location Question Screen
		If Action = KeyEntry then
		Append KeyEntered to Location
		State = DISPLAY_LOCATION_QUESTION: Event=Wait_on_user_action
		ElseIf Action = Clear then
		Location = null
		State = DISPLAY_LOCATION_QUESTION: Event=Wait_on_user_action
		ElseIf Action = Okay
		If Location = null then
		Display Message "No location entered – reenter"
		State = DISPLAY_LOCATION_QUESTION:
		Event=Wait_on_user_action
		Else
		State = GEOCODE: Event = GeoCode
		End If
		ElseIf Action = Map then
		State = DISPLAY_MAP: Event = Initialize
		ElseIf Action = BACK then
		State = PRIOR_QUESTION
		End If

GEOCODE	GeoCode	Response = Call Geocode software for entry in Location variable
		If Response = Failed then
		Display Message "Illegal location specified – retry"
		State = DISPLAY_LOCATION_QUESTION: Event=Initialize
		Else
		GeoCode=(lat,lng,null,null,location)
		State = NEXT_QUESTION: Event = Display
		End If

820 821 822 830 831

Fig 8 (1 of 2)

DISPLAY_MAP 840 841 842 850	Initialize	Zoom = 4 Lat= null: Lng=null: Proximity=Null: Units=Null State = DISPLAY_MAP: Event = Wait_on_user_action

	Wait_on_user_action	ReFresh Map
		If Action = ZoomOut then
		If Zoom > 1 then
		Zoom = Zoom – 1
		State = DISPLAY_MAP: Event = Wait_on_user_action
		End If
		ElseIf Action = ZoomIn then
		If Zoom <7 then
		Zoom = Zoom + 1
		State = DISPLAY_MAP: Event = Wait_on_user_action
		End If
		ElseIf Action = Cancel then
		State = DISPLAY_LOCATION_QUESTION: Event=Wait_on_user_action
		ElseIf Action = Location
		Set Lat,Lng from selected point on Screen
		State = DISPLAY_MAP: Event = Wait_on_user_action
		ElseIf Action = Proximity
		Set Lat,Lng from user selected point on Screen
		Set Proximity, Units from user input
		State = DISPLAY_MAP: Event = Wait_on_user_action
		ElseIf Action = Okay
		If (Lat,Lng) = (null,null) then
		Display Message "No map location selected – reenter"
		State = DISPLAY_MAP: Event = Wait_on_user_action
		Else
		GeoCode = (Lat,Lng,Proximity,Units,Location)
		State = NEXT_QUESTION: Event = Display
		End If
		End If

NEXT_QUESTION	Display	Display next question in the Computer Assisted Self Interview

Fig 8 (2 of 2)